

Form PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Atty. Docket No. 50422-8	Serial No. 10/761,409
		Applicant Steven E. Hill	
		Filing Date January 22, 2004	Group 2812

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROPRIATE
TN	AA	5	4	3	4	8	7	8	Jul 18, 1995	Lawandy	372	43	
	AB	6	2	9	4	4	0	1	Sept 25, 2001	Jacobson et al.	438	99	
	AC	0	0	1	7	6	5	7	Feb 14, 202	Coffa et al.	257	200	
	AD	0	0	7	0	1	2	1	Jun 13, 2002	Nayfeh et al.	205	549	
	AE	0	0	7	4	5	6	5	Jun 20, 2002	Flagan et al.	257	200	
	AF	0	1	6	3	0	0	3	Nov 7, 2002	Dal Negro et al.	257	79	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
													YES	NO
TN	AG	2	0	6	1	8	1	5	28.01.2002	WO	H01L	21/20		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TN	AH		A. Nakajima, et al.; MICROSTRUCTURE AND OPTICAL ABSORPTION PROPERTIES OS Si NANOCRYSTALS FABRICATED WITH LOW-PRESSURE CHEMICAL-VAPOR DEPOSITION; J. Appl. Phys., Vol. 80, No. 7, 1 October 1996, pp. 4006-4011.
	AI		Jeong Sook Ha, et al.; Er ³⁺ PHOTOLUMINESCENCE FROM Er-DOPED AMORPHOUS SiO _x FILMS PREPARED BY PULSED LASER DEPOSITION AT ROOM TEMPERATURE: THE EFFECTS OF OXYGEN CONCENTRATION; Applied Physics Letters, Vol. 82, No. 20, 19 May 2003, pp. 3436-3438.
	AJ		Jung H. Shin, et al.; EFFECT OF HYDROGENATION ON ROOM-TEMPERATURE 1.54 μm Er ³⁺ PHOTOLUMINESCENT PROPERTIES OF ERBIUM-DOPED SILICON-RICH SILICON OXIDE; Applied Physics Letters, Vol. 73, No. 25, 21 December 1998, pp. 3647-3649.
	AK		T.G. Kim, et al.; CONTROLLING THE FORMATION OF LUMINESCENT Si NANOCRYSTALS IN PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITED SILICON-RICH SILICON OXIDE THROUGH ION IRRADIATION; Journal of Applied Physics, Vol. 91, No. 5, 1 March 2002, pp. 3236-3242.
	AL		M. Li, et al.; ELLIPSOMETRY INVESTIGATION OF NUCLEATION AND GROWTH OF ELECTRON CYCLOTRON RESONANCE PLASMA DEPOSITED SILICON FILMS; J. Vac. Sci. Technol. A 11(4) Jul/Aug 1993, pp. 1686-1691.
	AM		H.S. Bae, et al.; ELECTROLUMINESCENCE MECHANISM IN SiO _x LAYERS CONTAINING RADIATIVE CENTERS; Journal of Applied Physics, Vol. 91, No. 7, 1 April 2002, pp. 4078-4081.
	AN		Minoru Fujii, et al.; 1.54 μm PHOTOLUMINESCENCE OF Er ³⁺ DOPED INTO SiO ₂ FILMS CONTAINING Si NANOCRYSTALS: EVIDENCE FOR ENERGY TRANSFER FROM Si NANOCRYSTALS TO Er ³⁺ ; Appl. Phys. Lett. 71 (9), September 1997, pp. 1198-1200.
	AO		Giorgia Franzò, et al.; ENHANCED RARE EARTH LUMINESCENCE IN SILICON NANOCRYSTALS; Materials Science and Engineering B69-70, 2000, pp. 335-339.
EXAMINER <i>T. N. Nguyen</i>			DATE CONSIDERED <i>1/18/06</i>

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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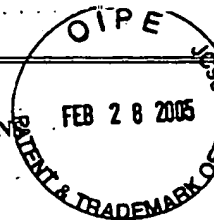
<u>TN</u>	AP	Giorgia Franzò, et al.; Er ³⁺ IONS-Si NANOCRYSTALS INTERACTIONS AND THEIR EFFECTS ON THE LUMINESCENCE PROPERTIES; Applied Physics Letters, Vol. 76, No. 16, 17 April 2000, pp. 2167-2169.
	AQ	Se-Young Seo, and Jung H. Shin; EXCITON-ERBIUM COUPLING AND THE EXCITATION DYNAMICS OF Er ³⁺ IN ERBIUM-DOPED SILICON-RICH SILICON OXIDE; Applied Physics Letters, Vol. 78, No. 18, 30 April 2001, pp. 2709-2711.
	AR	Jung H. Shin, et al.; PHOTOLUMINESCENCE EXCITATION SPECTROSCOPY OF ERBIUM-DOPED SILICON-RICH SILICON OXIDE; Applied Physics Letters, Vol. 76, No. 15, 10 April 2000, pp. 1999-2001.
	AS	F. Iacona, et al.; ELECTROLUMINESCENCE AT 1.54 µm IN Er-DOPED Si NANOCUSTER-BASED DEVICES; Applied Physics Letters, Vol. 81, No. 17, 21 October 2002, pp. 3242-3244.
	AT	Minoru Fujii, et al.; PHOTOLUMINESCENCE FROM SiO ₂ FILMS CONTAINING Si NANOCRYSTALS AND Er: EFFECTS OF NANOCRYSTALLINE SIZE ON THE PHOTOLUMINESCENCE EFFICIENCY OF Er ³⁺ ; Journal of Applied Physics, Vol. 84, No. 8, 15 October 1998, pp. 4525-4531.
	AU	A.J. Kenyon, et al.; LUMINESCENCE FROM ERBIUM-DOPED SILICON NANOCRYSTALS IN SILICA: EXCITATION MECHANISMS; Journal of Applied Physics, Vol. 91, No. 1, 1 January 2002, pp. 367-374.
	AV	J. De la Torre, et al.; OPTICAL AND ELECTRICAL TRANSPORT MECHANISMS IN Si-NANOCRYSTAL-BASED LEDs; Elsevier Science B.V., Physica E, 2002, pp. 1-3.
	AW	Jung H. Shin, et al.; COMPOSITION DEPENDENCE OF ROOM TEMPERATURE 1.54 µm Er ³⁺ LUMINESCENCE FROM ERBIUM-DOPED SILICON: OXYGEN THIN FILMS DEPOSITED BY ELECTRON CYCLOTRON RESONANCE PLASMA ENHANCED CHEMICAL VAPOR DEPOSITION; Applied Physics Letters, Vol. 72, No. 9, 2 March 1998, pp. 1092-1094.
	AX	P.G. Kik, et al.; STRONG EXCITON-ERBIUM COUPLING IN Si NANOCRYSTAL-DOPED SiO ₂ ; Applied Physics Letters, Vol. 76, No. 17, 24 April 2000, pp. 2325-2327.
	AY	G. Franzò, et al.; ELECTROLUMINESCENCE OF SILICON NANOCRYSTALS IN MOS STRUCTURES; Appl. Phys. A, Materials Science & Processing, 74, (2002), pp. 1-5.
	AZ	A. Irrera, et al.; EXCITATION AND DE-EXCITATION PROPERTIES OF SILICON QUANTRUM DOTS UNDER ELECTRICAL PUMPING; Applied Physics Letters, Vol. 81, No. 10, 2 September 2002, pp. 1866-1868.
	aa	P.S. Andry, et al.; GROWTH OF Er-DOPED SILICON USING METALORGANICS BY PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION; J. Appl. Phys. 80 (1), 1 July 1996, pp. 551-558.
	ab	Kei Watanabe, et al.; RESONANT EXCITATION OF Er ³⁺ BY THE ENERGY TRANSFER FROM Si NANOCRYSTALS; Journal of Applied Physics, Vol. 90, No. 9, 1 November 2001, pp. 4761-4767.
	ac	J. De la Torre, et al.; OPTICAL PROPERTIES OF SILICON NANOCRYSTAL LEDs; Elsevier Science B.V., Physica E, 2002, pp. 326-330.

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TN	AA	5,667,905	1997.09.16	Campisano, Salvatore Ugo et al.			
	AB	6,225,669	2001.07.03	Birkhahn, Ronald H. et al.			
	AC	US 2003/034486	2003.02.20	Korgel, Brian A.			
	AD	US 2002/048289	2002.04.25	Atanackovic, Petar B et al.			
	AE	US 2004/183087	2004.09.23	Gardner, Donald S.			
	AF	5,422,907	1995.06.06	Bhargava, Raneshwar N.			
	AG	5,637,258	1997.06.10	Goldburt, Efim T. et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
TN	AH	101 04 193	2002.08.01	DE				
	AI	2001 203382	2001.27.07	JP				
	AJ	1 134 799	2001.09.19	EP				
	AK	WO 02/061815	2002.08.08	DE				
	AL	0 650 200	1995.04.26	EP				

OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)

TN	AM	Orlov, L.K. et al.	COMPARATIVE ANALYSIS OF LIGHT EMMITTING PROPERTIES OF Si:Er AND Ge/Si _{1-x} Ge _x EPITAXIAL STRUCTURES OBTAINED BY MBE METHOD. <i>Gettering and Defect Engineering in Semiconductor Technology. Solid State Phenomena (FORMERLY Part B of "Diffusion and Defect Data [0377-6883])</i> . Vol 69 until 70, 1999. Pages 377-382. ISSN:1012-0394.
	AN	Shin, J.H. et al.	CONTROLLING THE QUANTUM EFFECTS AND ERBIUM-CARRIER INTERACTION USING Si/SiO ₂ SUPERLATTICES. <i>Proceedings of the SPIE</i> . Vol. 4282, January 1, 2001. Bellingham, VA United States of America. Pages 142-152.
	AO	Yun, F. et al.	ROOM TEMPERATURE SINGLE-ELECTRON NARROW-CHANNEL MEMORY WITH SILICON NANODOTS EMBEDDED IN SiO ₂ MATRIX. <i>Japanese Journal of Applied Physics</i> . Publication Office Japanese Journal of Applied Physics. Vol. 39, no. 8A Part II. August 1, 2000. Tokyo, Japan. Pages L792- L795.
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